

basics guide

hp photosmart 230



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get started

1

welcome

Thank you for purchasing an HP Photosmart printer! With your new, easy-to-use, compact photo printer you can:

- Print beautiful photos from your digital camera's memory card without using a computer.
- Print a photo index page that shows all the photos on your digital camera's memory card.
- Print 4 x 6 inch (10 x 15 cm) photos quickly and easily.

You can also connect your printer to your computer to save your photos to the hard disk, enhance your photos, share your photos with friends and family via E-mail, and use your photos in creative projects.

Your new printer comes with the following documentation to help you get started and get the most out of your printer:

- **Setup Guide** — Contains quick and easy instructions in poster format to help you set up your printer and install the printer software.
- **Basics Guide** — Includes a quick reference guide to help you get acquainted with your new printer. Describes how to use the basic features of your printer and provides troubleshooting information.
- **Software Setup & Product Support booklet** — Explains how to install and set up the software that comes with your printer. Contains software troubleshooting information, describes how to get support from **www.hp.com**, and explains how to contact HP Support and Services.
- **HP Photosmart Printer Help** — Provides online support for using the more advanced features of your new printer. Includes information on printer care and maintenance as well as a section on advanced troubleshooting and error messages.

After you have installed the HP Photosmart software on your computer, you can view and print the HP Photosmart Printer Help.

view the hp photosmart printer help

- **Windows PC:** From the **Start** menu, choose **Programs, Hewlett-Packard, Photosmart Printer 130, 230, 7150, 7345, 7350, 7550**, and **HP Photo & Imaging Director**. From the **HP Photo & Imaging Director**, click **Help**.
- **Macintosh:** Insert the CD that came with your printer. Click on the **User Docs** folder, select your **language**, then click the **photosmart 230.html** file..

print the hp photosmart printer help

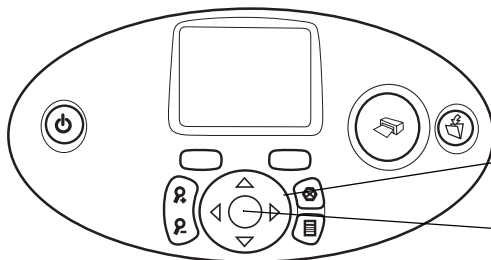
- **Windows PC:** Click **Print** in the top navigation bar of the HP Photosmart Printer Help window.
- **Macintosh:** From the **File** menu, select **Print**, or click **Print** in the top navigation bar of the browser.

quick reference

Printing photos is easy! Load photo paper, install the print cartridge, insert a memory card containing photos, then...

Ready...

Press the **LEFT** or **RIGHT** arrow to navigate to each photo you want to print, then press the **OK** button to select it. Try it!



Tip: Press the **UP** or **DOWN** arrow to view selected photos only.

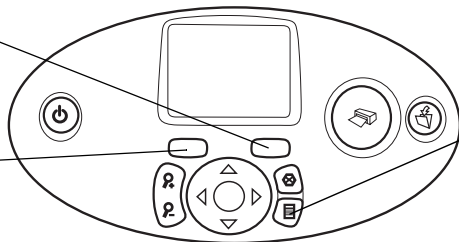
Arrow keys

OK button

Set...

Press the **SIZE** button to change the printed size of each photo.

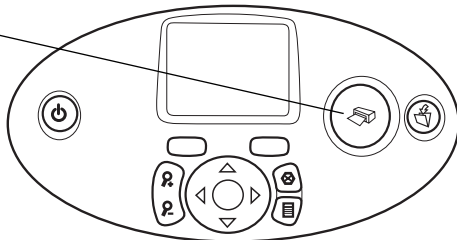
Press the **COPIES** button to change the number of printed copies.



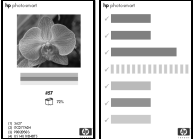


Tip: Press the **MENU** button and scroll to print photo index pages, ranges of photos, or all photos at once.

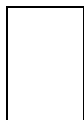
Print!

Press the **PRINT** button and enjoy your photos!



To print...	Use this paper...
 <p>borderless photos</p>	<p>glossy photo paper with tab 4 x 6.5 inch (10 x 15 cm with 1.25 cm tab)</p>
 <p>photos with a border on the bottom edge</p>	<p>glossy photo paper without tab 4 x 6 inch (10 x 15 cm)</p>
 <p>test and calibration pages</p>	<p>plain index cards 4 x 6 inch (10 x 15 cm)</p>

There is a difference between *index cards* and *photo index pages*



Index card = card-weight paper
Use plain 4 x 6 inch (10 x 15 cm) index cards to print test and calibration pages.



Photo index page = a print showing numbered “thumbnails” of the photos on your memory card.
Print a photo index page to help you select the photos you want to print.

There is a difference between *paper size* and *photo size*

You can print on these paper sizes:

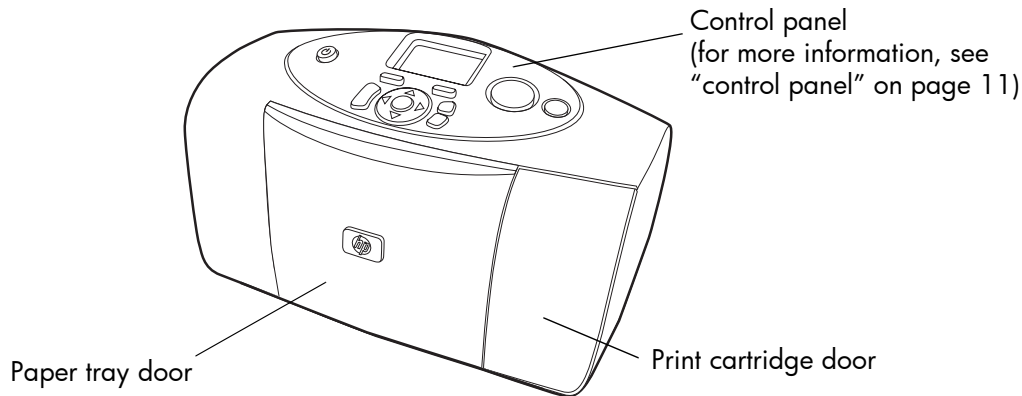
- 4 x 6 inch (10 x 15 cm)
- 4 x 6 inch with 0.5 in. tab (10 x 15 cm with 1.25 cm tab)

You can print these photo sizes:

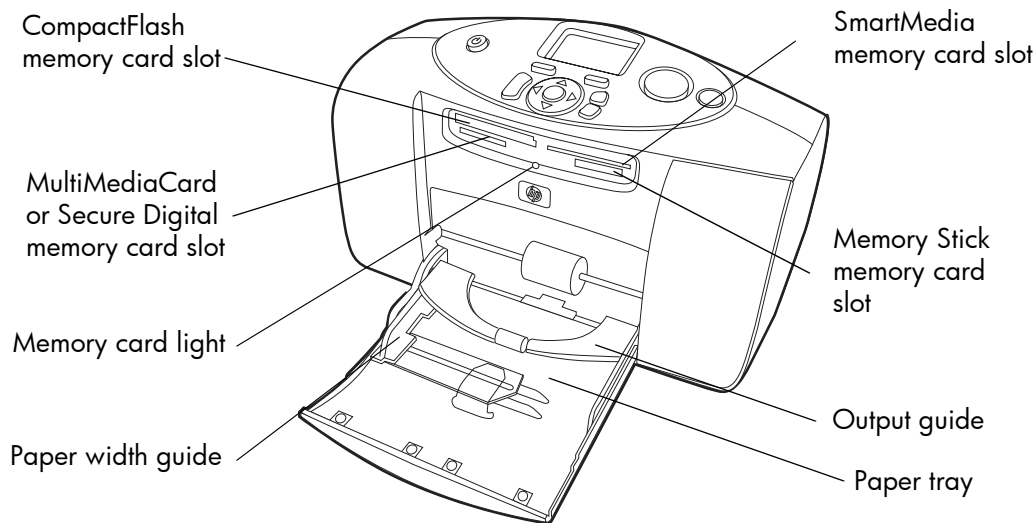
- 4 x 6 inch (10 x 15 cm)
- Wallet
- Thumbnail

printer parts

front

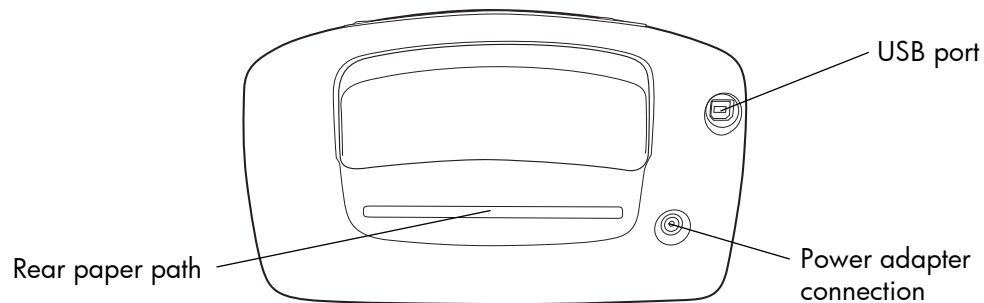


paper tray door open

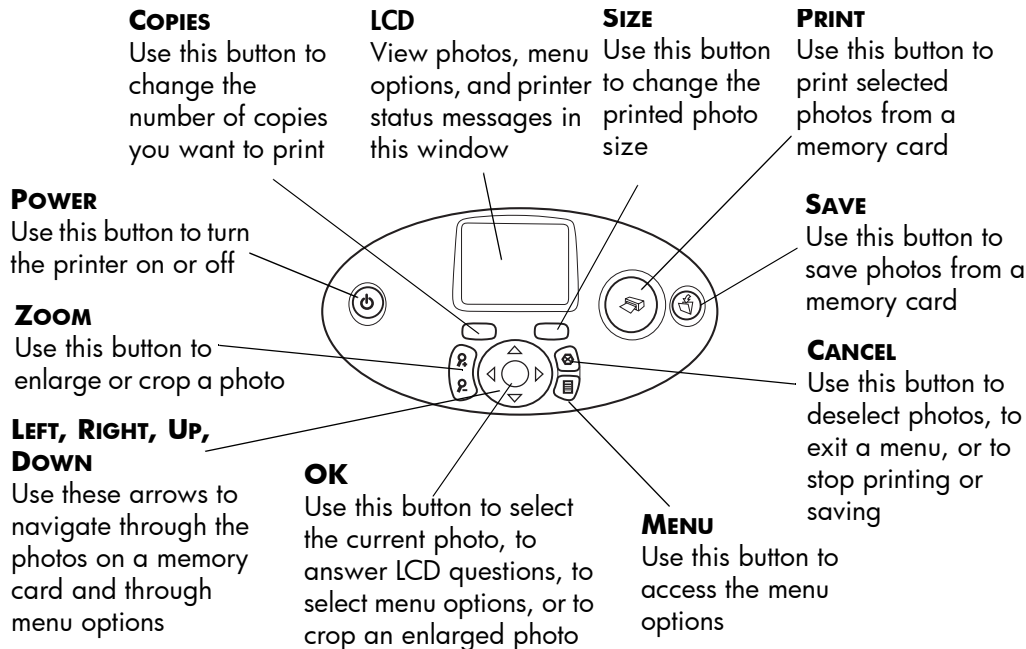


back

get started



control panel



paper information

You can print color photos on 4 x 6 inch (10 x 15 cm) photo paper (with or without a tear-off tab), plain paper, or index cards. For best printing results, use HP Photo Paper. HP paper can be found at most computer and office supply stores or on the Web at:

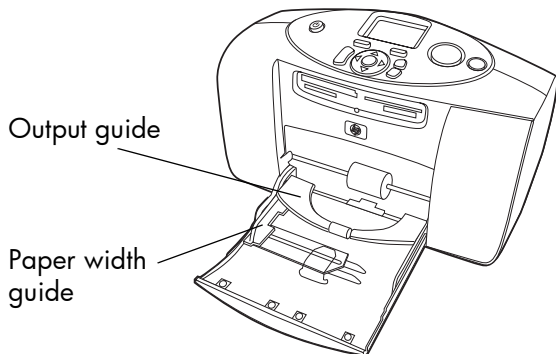
- www.hpshopping.com (U.S.)
- www.hp-go-supplies.com (Europe)
- [www. hp.com/paper](http://www.hp.com/paper) (Asia Pacific)

Your printer supports the following paper types:

Name or type	Size	Use for
HP Premium Photo Paper	4 x 6 inch (with 0.5 inch tab) 10 x 15 cm (with 1.25 cm tab)	Medium- to high-resolution photos, snapshots, photo album prints, photos to archive, and borderless photos
HP Photo Paper	4 x 6 inch (with 0.5 inch tab) 10 x 15 cm (with 1.25 cm tab)	Photos to share with friends, snapshots to enclose with letters and cards, reprints, digital photography, and business photos
Index cards	4 x 6 inch (10 x 15 cm)	Print cartridge calibration pages, test pages, draft prints, children's projects, and photo index pages (to conserve photo paper)
Other brands of photo paper	4 x 6 inch (10 x 15 cm) A6 (105 x 148.5 mm)	Photos and photo index pages



As it prints, the printer pulls the paper straight through the paper slot, out the back, and then through to the front again. Be sure the rear paper path of the printer is at least 10 inches away from any obstruction.



load paper

- 1 Place a stack of paper on the paper tray and slide it underneath the output guide.
 - The printer prints on the side of the paper that is facing up. If you are using photo paper, load the paper with the **glossy side up**. If you are using tabbed paper, load the paper into the paper tray so the **tab feeds into the printer first**.
 - Load 10 to 20 sheets of photo paper or index cards. For more information, see the loading instructions that come with your photo paper.
 - Use one type and size of paper at a time. Do not mix paper types or sizes in the paper tray.
- 2 Move the paper width guide on the paper tray to fit close to the left edge of the paper without bending the paper. This allows the paper to feed into the printer correctly so that your photos will print straight.



With papers other than HP Premium Photo Paper, you may experience paper feeding or ejecting problems. Try loading fewer sheets of paper and be sure the paper width guide fits close to the left edge of the paper without bending the paper.

print cartridge information

The correct print cartridge for your printer is the **HP #57 (C6657A) tri-color** print cartridge.



Make sure you are using the correct print cartridge (HP #57). Damage to the printer or cartridge resulting from the modification or refilling of HP print cartridges is specifically excluded from HP warranty coverage.

You can install and remove the print cartridge while the printer is on or off. When you insert a new print cartridge for the first time, the printer automatically prints a calibration page. If you remove the print cartridge and reinsert it, another calibration page will not print.

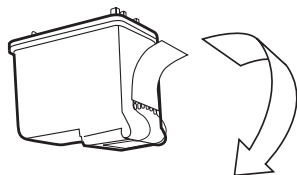


If the printer is off when you install a print cartridge, the calibration page prints when you turn the printer on.

install or replace the print cartridges

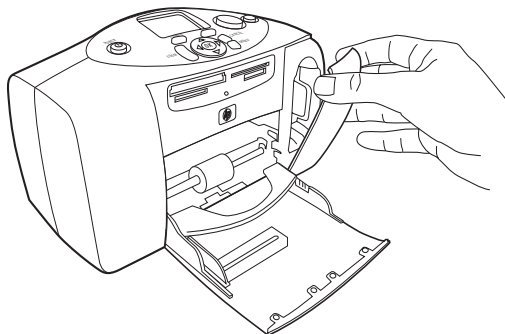
To get the best performance from your printer, use only genuine HP factory-filled print cartridges.

- 1 If the printer is off, press the **POWER** button on the printer's control panel to turn the printer on.
- 2 Load an index card in the paper tray so the printer can print a calibration page after you install the print cartridge.
- 3 Take the new print cartridge out of its package and pull the **tab** to remove the clear **plastic tape**.

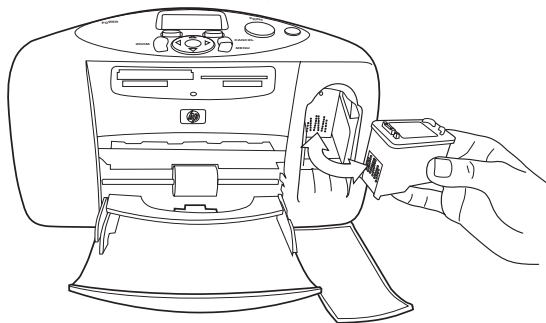


Do NOT touch the ink nozzles or the copper contacts on the print cartridge. Touching these parts may cause print cartridge failure.

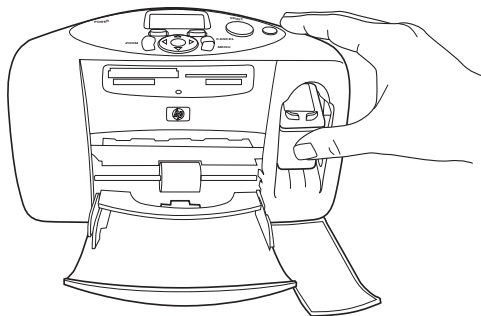
- 4 Open the print cartridge door by pulling the door down.



- 5 Place the print cartridge in the print cartridge cradle with the copper contacts facing toward the inside of the printer and the ink nozzles facing down.



- 6 Push the print cartridge into the print cartridge cradle until you feel it snap into place.



- 7 Close the print cartridge door.

After you insert the print cartridge, the printer automatically prints a calibration page. If the printer is off, the calibration page prints when you turn the printer on. The calibration page verifies that the print cartridge is installed correctly.



remove the print cartridge

- 1 Open the print cartridge door.
- 2 Push down and pull outward on the top of the print cartridge to unsnap it from the print cartridge cradle.
- 3 Remove the print cartridge from the printer.

use the control panel

Your printer's control panel has several buttons:

- **COPIES** — Use this button to change the number of copies you want to print.
- **LCD** — View photos, menu options, and printer status messages in this window.
- **SIZE** — Use this button to change the photo size.
- **Printer light** — This light illuminates the **PRINT** button. When this light is green, the printer is on. When this light is blinking green, the printer is busy. When this light is blinking red, the printer needs attention.
- **PRINT** — Use this button to print selected photos from a memory card.
- **SAVE** — Use this button to save photos from a memory card.
- **CANCEL** — Use this button to deselect photos, to exit a menu, or to stop printing or saving.
- **LEFT, RIGHT, UP, DOWN** — Use these arrows to navigate through menu options. Use the **LEFT** and **RIGHT** arrows to scroll through the photos on a memory card. Use the **UP** and **DOWN** arrows to scroll through selected photos.
- **MENU** — Use this button to access the menu options.
- **OK** — Use this button to select the current photo, to answer LCD questions, to select menu options, or to crop an enlarged photo.

- **Zoom** — Use this button to change the magnification of the selected photo or crop the photo.
- **Power** — Use this button to turn the printer on or off. Allow at least ten seconds for the printer to perform internal verifications when you turn it on.

use your printer with a digital camera

2

Your HP Photosmart printer lets you print beautiful photos from your digital camera without using your computer.

print from a memory card

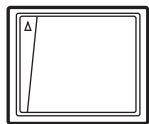
If your digital camera uses a memory card to store photos, you can insert the memory card into the printer to print your photos without using a computer. The printer's LCD guides you through the process.

Your printer supports six different memory cards. These cards are manufactured by several vendors and are available in a variety of storage capacities. You can purchase memory cards where you purchased your digital camera or at most computer supply stores.

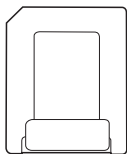
supported memory cards

The printer can read **CompactFlash™ Association (CFA) certified Type I or II**, **SmartMedia™**, **MultiMediaCard™**, **Secure Digital™**, and **Memory Stick™** memory cards.

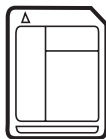
Caution: Using any other type of memory card may damage the memory card and the printer.



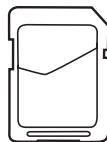
CompactFlash
Type I or II



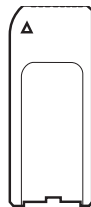
SmartMedia



MultiMediaCard



Secure Digital



Memory Stick

If your digital camera supports multiple file types, it may also be able to save photos in several different file formats, such as JPEG, uncompressed TIFF, FlashPix, and RAW. You can print JPEG and uncompressed TIFF files directly from the memory card. To print other file types, save the photos to your computer and print them using a software application.

insert a memory card

After you have taken photos with your digital camera, you can insert a memory card into your printer to print photos immediately or use the printer to save the photos to your computer.



The printer can only access one memory card slot at a time.

When you insert a memory card correctly, the memory card light illuminates. The LCD briefly shows the number of photos on the memory card, then displays the first photo.

Caution: Do not pull out the memory card while the memory card light is blinking. Removing a memory card while it is being accessed may damage the printer or the memory card, or corrupt the information on the memory card. For more information see the HP Photosmart Printer Help.

There are four different memory card slots on your printer. The memory card slot you use depends on the type of memory card you have.

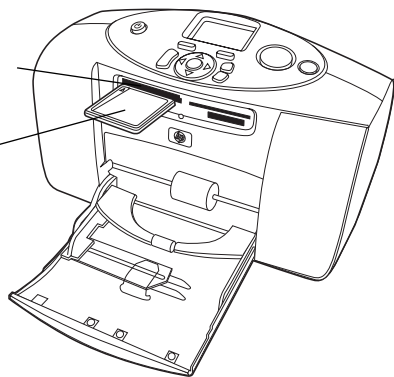
insert a CompactFlash memory card

Open the paper tray door. Insert the memory card into the **top left** memory card slot so the front of the memory card faces up. Insert the edge with pinholes into the printer first. If there is an **arrow** on the memory card's label, make sure the arrow is pointing towards the slot and facing **up**.

Gently push the memory card into the printer until it stops. The memory card may not insert all the way into the printer. Forcing the memory card too far into the printer may damage the memory card or the printer.

CompactFlash
memory card
slot

CompactFlash
memory card



Caution: Inserting the card any other way may damage the memory card or the printer.

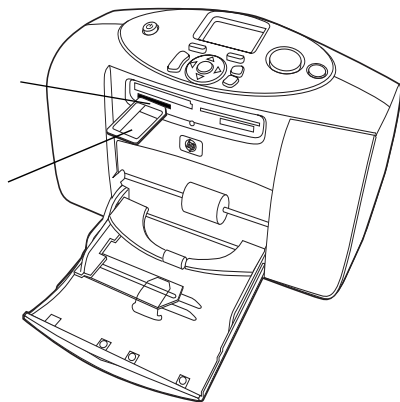
insert a MultiMediaCard or Secure Digital memory card

Open the paper tray door. Insert the memory card into the **bottom left** memory card slot with the label facing **up** and the side with the metal contacts facing **down**. Insert the end with the metal contacts into the printer first.

Gently push the memory card into the printer until it stops. The memory card may not insert all the way into the printer. Forcing the memory card in too far may damage the memory card or the printer.

MultiMediaCard
or Secure Digital
memory card slot

MultiMediaCard
or Secure Digital
memory card



Caution: Inserting the card any other way may damage the memory card or the printer.

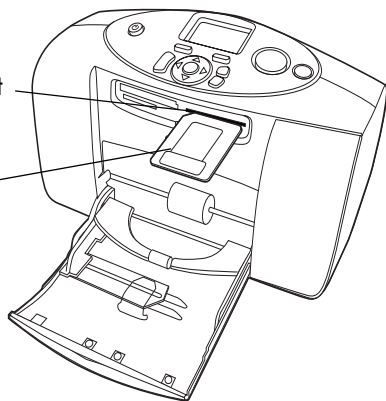
insert a SmartMedia memory card

Open the paper tray door. Insert the memory card into the **top right** memory card slot so the front of the memory card (the black side) faces **up** and the side with the gold contacts faces **down**. Insert the end with the gold contacts into the printer first.

Gently push the memory card into the printer until it stops. The memory card may not insert all the way into the printer. Forcing the memory card too far into the printer may damage the memory card or the printer.

SmartMedia
memory card slot

SmartMedia
memory card

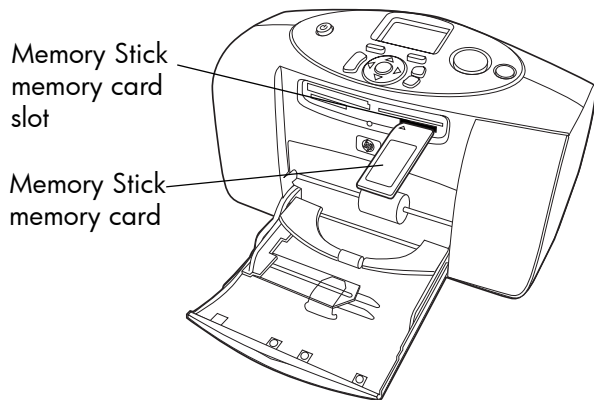


Caution: Inserting the card any other way may damage the memory card or the printer.

insert a Memory Stick memory card

Open the paper tray door. Insert the memory card into the **bottom right** memory card slot with the metal contacts facing **down**. Insert the end with the metal contacts into the printer first.

Gently push the memory card into the printer until it stops. The memory card may not insert all the way into the printer. Forcing the memory card too far into the printer may damage the memory card or the printer.



Caution: Inserting the card any other way may damage the memory card or the printer.

decide which photos to print

You can decide which photos to print by viewing the photos on the printer's LCD or by printing a photo index page.

view photos on the LCD

- 1 Insert a memory card into the printer's memory card slot.
- 2 Wait for the first photo stored on the memory card to display on the LCD, then press the **LEFT** or **RIGHT** arrow to view the photos. Each time you press an arrow, a new photo appears on the LCD.

print a photo index page

- 1 Insert a memory card into the printer's memory card slot.
- 2 Wait for the first photo stored on the memory card to display on the LCD, then press the **MENU** button on the printer's control panel.
- 3 Press the **DOWN** arrow until **Print Index Page** appears highlighted on the LCD, then press the **OK** button.

For more information on printing and saving photos from a memory card, see the HP Photosmart Printer Help.

print photos from the control panel

Printing photos from a memory card is as easy as inserting the memory card into the printer's memory card slot, selecting the photo you want to print, and pressing the **PRINT** button.

- 1 Insert a memory card into the printer's memory card slot.
- 2 Wait for the first photo stored on the memory card to appear on the LCD, then press the **LEFT** or **RIGHT** arrow until the photo you want to print appears in the LCD.
- 3 Press the **COPIES** or **SIZE** button to adjust the print settings.



To print more than one photo at a time, press the **OK** button to select each photo. Press the **UP** or **DOWN** arrow to scroll through selected photos.

- 4 Press the **PRINT** button.

See the HP Photosmart Printer Help for more information on:

- Printing multiple photos or ranges of photos.
- Adding patterned frames to photos.
- Using color effects such as Antique or Sepia.
- Zooming and cropping photos.
- Viewing slide shows.

print camera-selected photos

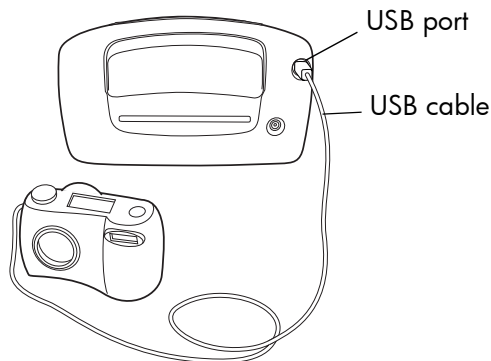
If you have an HP direct-printing digital camera, you can use your printer to print camera-selected photos.

select and print photos

- 1 Use your camera's Share menu to select the photos you want to print. For more information, see the documentation that came with your camera.
- 2 Connect the camera to the USB port on the back of your printer using the special USB cable that came with your camera.

When you connect the camera to the printer, the camera's Print Setup menu appears. Use this menu to:

- Change the photos you have selected for printing.
- Select the photo paper type.
- Select the photo size.



- 3 When you are ready to print, follow the instructions on your camera's LCD.



To learn more about using camera-selected photos, see the documentation that came with your camera.

troubleshooting

3

Your HP Photosmart printer is designed to be reliable and easy to use. This section offers tips and advice for addressing frequently asked questions. Before you begin, make sure:

- All the cable connections between your printer and computer are secure.
- You are using the most recent version of the software. Go to **www.hp.com** to check for software updates. See the *HP Photosmart Software Setup & Product Support* booklet that came with your printer for contact information.



The information in this chapter pertains to both Windows PC and Macintosh operating systems.

print a test page

You can print a test page to check the print cartridge and to make sure the paper is loaded correctly.

- 1 On the printer's control panel, press the **MENU** button.
- 2 Press the **DOWN** arrow until **Print a test page** appears highlighted in the LCD, then press the **OK** button.

A test page prints with information about your printer.

Photo print quality

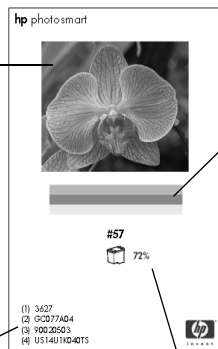
If this looks good, your photos should print well

Ink nozzle quality

If there are white streaks in these color bars, try cleaning the print cartridge

Diagnostic information

To be used when working with HP Support and Services



Estimated ink level

Use this to determine when you should buy a new print cartridge

printer problems

Problem	Possible cause	Solution
The printer will not turn on.	The printer may have drawn too much power.	Unplug the printer's power cord and wait approximately 10 seconds. Reconnect the power cord and press the POWER button to turn on the printer.
	The printer is plugged into a power strip and the power strip is turned off.	Turn on the power strip.
The Printer light is blinking green.	The printer may be processing information.	Be patient. The printer needs some time to finish processing the information.

Problem	Possible cause	Solution
The Printer light is blinking (slowly) red.	The printer needs attention.	Try the following: 1 Check the printer's LCD and the computer monitor for instructions. 2 If this does not work, and you have a digital camera connected to the printer, check the camera's LCD for instructions. 3 If this does not work, turn the printer off. Unplug the printer's power cord, wait one minute, then plug it in again. Turn the printer on.

Problem	Possible cause	Solution
The Printer light is blinking (quickly) red.	An unrecoverable error has occurred.	Try the following: 1 Turn the printer off. Unplug the printer's power cord, wait one minute, then plug it in again. Turn the printer on. 2 If this does not work, check www.hp.com or contact HP Support and Services. For contact information, see the <i>Software Setup & Product Support</i> booklet that came with your printer.
The printer cannot recognize the file on the memory card.	Your memory card contains file types the printer cannot read.	Set your camera to save the photos in file types the printer supports. For a list of supported file types, see specifications on page 49. For more information on setting your camera to save specific file types, see the documentation that came with your camera.

Problem	Possible cause	Solution
Printing is very slow.	You may be trying to print a high resolution photo.	Be patient. High resolution photos print slowly.

printing problems

Problem	Possible cause	Solution
Photo paper does not feed into the printer correctly.	Photo paper is not aligned properly in the paper tray.	Move the paper width guide on the paper tray to fit close to the left edge of the paper without bending the paper.
	You are in an extremely high or low humidity environment.	Try the following: <ul style="list-style-type: none">• Insert the photo paper as far as it will go into the paper tray.• Load one sheet of photo paper at a time.

Problem	Possible cause	Solution
Paper does not feed into the printer correctly. OR Paper does not come out of the printer correctly.	There may be too much paper loaded in the paper tray.	Remove some paper from the paper tray and try printing again.
	The paper may be too thin or too thick.	For a list of supported paper weights and types, see specifications on page 49.
	The paper may be wrinkled or bent.	Try using different paper.
No page came out of the printer. <i>(continued on next page)</i>	The printer needs attention.	Check the printer's LCD for instructions.
	The power may be off. OR There may be a loose connection.	Try the following: <ul style="list-style-type: none">• Make sure the power is on.• Make sure the power cord is securely connected.

Problem	Possible cause	Solution
<i>(continued from previous page)</i> No page came out of the printer. <i>(continued on next page)</i>	You may not have any paper in the paper tray.	Check that paper is loaded correctly in the paper tray. See paper information on page 12 for paper loading instructions.
	The printer's print cartridge door may be open.	Close the printer's print cartridge door.

Problem	Possible cause	Solution
<p><i>(continued from previous page)</i></p> <p>No page came out of the printer.</p> <p><i>(continued on next page)</i></p>	<p>There may be a paper jam.</p>	<p>Try the following:</p> <ul style="list-style-type: none"> • Check the printer's LCD for instructions. • Remove the paper from the paper tray and check the rear paper path. <p>If the paper is still jammed, try the following:</p> <ol style="list-style-type: none"> 1 Turn off the printer. 2 Unplug the printer. 3 Gently remove the jammed paper from the printer. 4 Plug the printer back in and turn it on. 5 When you have cleared the paper jam, print your photo again.
	<p>The print cartridge cradle may be stuck.</p>	<p>Remove and reinsert the print cartridge.</p>

Problem	Possible cause	Solution
<i>(continued from previous page)</i> No page came out of the printer.	A problem may exist with the print cartridge.	Try the following: <ul style="list-style-type: none"> • Check the printer's LCD for error messages. • Print a test page and replace the print cartridge if necessary.
	The printer may still be processing information.	Be patient. High resolution photos print slowly.
A blank page came out of the printer.	The print cartridge may be out of ink.	Print a test page and replace the print cartridge if necessary.
	You may have previously started a print job and then cancelled it.	If you cancel a print job before the file starts printing, the printer may have already loaded paper in preparation for printing. When you start the next print job, the printer ejects the blank page before continuing with the current job.

Problem	Possible cause	Solution
The photo printed at an angle or is off-center.	Paper may not be loaded correctly.	Make sure the paper is correctly oriented in the paper tray. For paper-loading instructions, see load paper on page 15.
Print quality is poor.	The print cartridge may be running out of ink.	Print a test page. OR If the print cartridge is running low on ink, replace the print cartridge.
	You may not be using the best paper type for your output.	Make sure you are using a paper type intended for the printer. For best results, use HP Photo Paper.
	You may be printing on the wrong side of the photo paper.	Make sure the photo paper is loaded with the glossy side up .

Problem	Possible cause	Solution
Photos are not printing correctly.	You may not have loaded the photo paper correctly.	Load the photo paper with the glossy side up . If you are using tabbed paper, load the paper so the tab feeds in first.
	The photo paper may not have fed into the printer correctly.	Check for a paper jam, then try the following: <ul style="list-style-type: none">• Insert the photo paper as far as it will go into the paper tray.• Load one sheet of photo paper at a time.
The photos you selected for printing using the numbers on the camera's LCD did not print. Different photos printed instead.	Your camera may assign numbers to your photos that do not match the numbers that the printer assigns to them.	Print a photo index page. Use the number shown on the photo index page to select the photos to print.

Problem	Possible cause	Solution
The photos you marked for printing in your camera do not print.	Some digital cameras (such as the HP 318 and HP 612) let you mark photos for printing on both the camera's internal memory and on the memory card. If you move photos from the camera's internal memory to the memory card, the marks do not transfer.	Mark photos for printing after you transfer them from your camera's internal memory to the memory card.

See the HP Photosmart Printer Help for more information on:

- Windows PC connection problems.
- Macintosh connection problems.
- USB connection problems.
- More printer problems.
- More printing problems.
- LCD error messages

specifications

4

system requirements

Component	Windows PC minimum	Macintosh minimum
Operating system	Windows 98, 2000 Professional, ME, XP Home, and XP Professional	Macintosh® OS 9.x, OS X 10.1 or later
Processor	Pentium® II (or equivalent) or higher	G3 or greater
RAM	64 MB (128 MB recommended)	OS 9.x: 64 MB (128 MB recommended) OS X: 128 MB
Free disk space	500 MB	300 MB
Video display	800 x 600, 16-bit or higher	800 x 600, 16-bit or higher
CD-ROM drive	4x	4x

Component	Windows PC minimum	Macintosh minimum
Connectivity	USB port and USB cable	USB port and USB cable
Browser	Microsoft® Internet Explorer 5.5 or higher	

printer specifications

Paper tray	One 4 x 6 inch (10 x 15 cm) photo tray
Tray capacity	25 4 x 6 inch (10 x 15 cm) photo pages 20 4 x 6 inch (10 x 15 cm) index cards 20 (105 x 148.5 mm) A6 cards
Photo file formats	JPEG baseline TIFF 24 bit RGB uncompressed chunky TIFF 24 bit YCbCr uncompressed chunky TIFF 24 bit RGB packbits chunky TIFF 8 bit Gray uncompressed/packbits TIFF 1 bit uncompressed/packbits/1D Huffman

Media types	Paper (plain, photo), cards (index, A6)
Media sizes	Photo 4 x 6 inch (10 x 15 cm) Photo with tab 4 x 6.5 inches (10 x 16.25 cm) Index cards 4 x 6 inch (10 x 15 cm) A6 (105 x 148.5 mm)
Margins	Bottom 0.46 inch, 11.7 mm
Memory	8 MB
Memory cards	CompactFlash Type I or II Memory Stick MultiMediaCard Secure Digital SmartMedia
Memory card supported file formats	Printed directly from the printer: JPEG (baseline), uncompressed TIFF (RGB and YCbCR), and DCF files created by a digital camera. Saved to and printed from the computer: all file types.
Connectivity	USB 2.0 Full speed (Windows 98, 2000 Professional, ME, XP Home and XP Professional, and Mac OS 9.x and OS X 10.1)

Power adapter	C8442-60026 adapter: 120–127Vac, 50/60Hz, 500mA C8442-60027 adapter: 100–240Vac, 50/60Hz, 500mA
Print quality, color	HP PhotoREt III, up to 4800 x 1200 optimized dpi
Technology, color	HP PhotoREt III, HP ColorSmart III, HP SmartFocus, Automatic Contrast Enhancement
Print technology	Drop-on-demand thermal inkjet printing
Print cartridge	1 tri-color HP #57 (C6657A)
Prints color	Yes
Print languages	HP PCL 3
Dimensions	8.8 x 4.3 x 5.3 inches (225 x 110 x 135 mm)
Weight	3.06 lb (1.39 kg)
USB support	USB 2.0 Full speed (Windows 98, 2000 Professional, ME, XP Home and XP Professional, Macintosh OS 9.x, and Macintosh OS X 10.1. USB cable must be no longer than 3 meters.

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